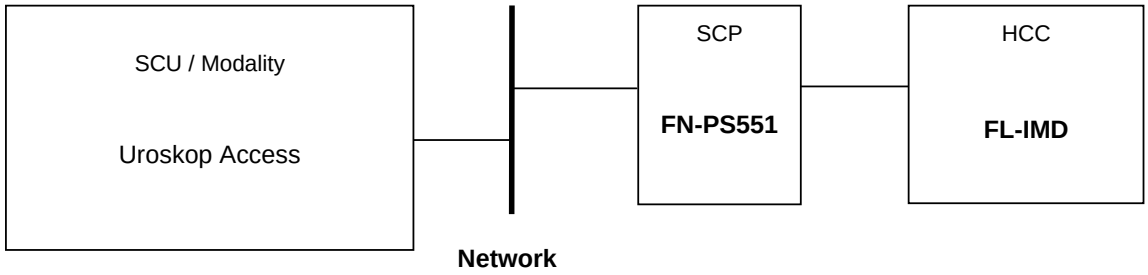
| Product: | Uroskop Access |
|---|---|
| Title: | Specific Hardcopy Camera Information for FUJI FL-IMD / FN-PS551 |
| Systems affected: | Image System ASPIA |
| Replaces: | n.a. |

# 1 General Information

## 1.1 Block Diagram




## 1.2 Available Film Sizes

| Application | | | Film Type | Medium Type |
|---|---|---|---|---|
| **14"x17"** | **Portrait** | **yes** | **LI-LM** | **blue based** |
| | **Landscape** | **yes** | | |
| **14"x14"** | **Portrait** | **no** | **no** | **no** |
| | **Landscape** | **no** | | |
| **11"x14"** | **Portrait** | **yes** | **LI-LM** | **blue based** |
| | **Landscape** | **yes** | | |
| **8"x10"** | **Portrait** | n.a. | n.a. | n.a. |
| | **Landscape** | n.a. | | |
| **others** | | n.a. | n.a. | n.a. |

yes - Film size is available and released
no - Film size is available but not released
n.a. - Film size is not available

## 1.3 Restrictions

For HCC-independent restrictions, see also the general restrictions in the document Uroskop Access, General Hardcopy Information.

# 2 Modality SW Configurations / Parameters

Refer to: Uroskop Access, General Hardcopy Camera Information

| Application Entity Properties | Display | Changes allowed yes/no |
|---|---|---|
| **AE Title** | FLIMD | Yes |
| **Port Number** | 104 | **No** |
| **Supported DICOM Services** | Print | **No** |

| HC Device / General Settings | | Display | Changes allowed yes/no |
|---|---|---|---|
| **Type** | | DICOMprinter | **No** |
| **Class (Printer spec file name)** | | fuji_flimd | **No** |
| **DICOM Node** | | flimd | **Yes** |
| **Filming Properties** | | **Display** | **Changes allowed yes/no** |
| **Hold printed film jobs** | | 10 | **Yes** |
| **Min. density** | | 20 | **Yes** |
| **Pixel Size [1/1000 mm]** | | 100 x 100 | **No** |
| **Film Sheet Formats Portrait** | **Number of pixels [columns x rows]** | 14x17 inches<br>3460x4168<br>11x14 inches<br>2500x3522 | In "define new"<br>Do not modify/add<br>Select only<br>Delete only |
| **Film Sheet Formats Landscape** | **Number of pixels [columns x rows]** | l4x17 inches<br>4200x3360<br>11x14 inches<br>3560x2440 | In "define new"<br>Do not modify/add<br>Select only<br>Delete only |
| **Medium Type** | | blue film | **Yes** |
| **Film Destination** | | processor | **No** |
| **Color appearance** | | monochrome | **No** |
| **Background** | | black | **Yes** |
| **Transformation** | | no magnification | **No** |

**Note:** Do not modify and/or add film sizes.
Do not modify pixel sizes.
Delete film sizes that are not available at customer site.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# 3 Hardcopy Camera, Configuration

## 3.1 Identification

| | | |
|---|---|---|
| **Device-Type:** | **DICOM Print Server(SCP)** | **Printer** |
| **Manufacturer / Device Name:** | FUJI Photo Film / FN-PS 551 | FUJI Photo Film / FL–IMD |
| **HW Revision** | Dell – PC, Optiplex GX 1 | n.a. |
| **SW Revision:** | **A 06** | **A10** |
| **Image Memory:** | 6 GB(128MB Main Memory) | 96 MB |
| **Harddisk:** | 6,4 GB | None |
| **Number of Operating Panels:** | 1 PC-Tastatur | 1 built in Keypad |
| **No./Typ of Input:** | 1 Ethernet - Board, | 1 IFM 05 / MEM05 Board |
| **No./Typ of Output:** | 1 SCSI-PEI01A Board(FUJI-DMS Protokoll) | |
| **Physical Network Interface:** | 100/10Base-T Ethernet, UTP/STP | None |
| **Network Protocol:** | TCP / IP | None |
| **DICOM Conformance Statement:** | FUJI Network Print Server FN-PS551, May 2001, 4th Edition | None |

## 3.2 SCP / Printer Settings (provided by FUJI)

| File name | Content | Remarks |
|---|---|---|
| None | FUJI Service Utility setting: | Provided by FUJI |
| | Protocols: DICOM | Properties |
| | | Network port no. = 104 |
| | | data transfer timeout = 600 sec. |
| | | Print Server Application Entity = one to each printer |
| | | Data receive if the printer is off-line = enable |
| | Printer: FMDPL | Properties |
| | Name: | AE Title of DICOM = FLIMD |
| | | Fine printing = off |
| | Interface: | interface = E-i/f |
| | | pixel clock = 1,0 µsec/pixel |
| | | version = type 1 |
| | | Filmsize = 14x17 (dimmed) |
| | | film medium = blue (dimmed) |
| | Model: | model = FN-PS551 |
| | | manufacturer = FUJI PHOTO FILM CO, LTD |
| | Clients: DICOM: UroA | Properties |
| | name: | Hostname = UroA |
| | | IP adress = (from System Administrator) |
| | protocol: | Protocol = DICOM |
| | | Application Entity Title = UroA |
| | | Attribute list error(0107H warning) = indicate |
| | | Attribute value out of range(0116H warning) = indicate |
| | | Image size larger than image box(B604H warning) = indicate |
| | | N-Event-Report-RQ = **disabled** |
| | | Use Presentation LUT = No |
| | | Data transfer timeout = enabled |
| | | Use extension format = No |

| | |
|---|---|
| magnify: | procedure = SSM |
| | default smoothing type = SHARP |
| LUT: | procedure = SAR |

| | |
|---|---|
| | default LUT = 1 (linear) |
| | Adj. parameter LUT = 1 |
| | rtable no. = 17 |
| | Max. density = 300 |
| | Min. density = 15 |
| | number of tuning points = 0 |
| printer: | fixed, FLIMD |
| output format1: | border density = 300 |
| | polarity = normal(Pos.) |
| | trim density = 300 |
| | trim = off |
| | trim width = 1 pixel |
| | number of copies = 1 |
| | film size = 14x17 |
| | medium type = blue |
| | film orientation = portrait |
| | mirror = OFF(normal) |
| | overlay threshold density = 120 |
| output format2: | a margin between image = 20 pixel |
| | Image Layout = concentration |
| Annotation: Print Server | upper left = (nothing selected)<br>upper center = (nothing selected)<br>upper right = (nothing selected)<br>lower left = (nothing selected)<br>lower center = (nothing selected)<br>lower right = (nothing selected) |
| Logging: | network = (No) |
| | printer = (No) |
| | DICOM = normal |
| | output image to file = off |
| | Precedence = Input |
| Sorting: | sorting conditions = (nothing selected) |
| 2 cameras (each with a separate channel) are possible to connect to PS551. For the test only one printer connection is used. | |

Note1: Maximum number of associations supported: 6

## 3.3 Error and Warning Messages

| Printer (SCP) defined message | Displayed message at modality (SCU) |
|---|---|
| FAILURE: UNKNOWN | Unspecified problem with camera |
| SUPPLY EMPTY | Camera out of film |
| RECEIVER FULL | Receiver full |
| CHECK CHEMISTRY | Problem with chemistry. Film quality may not be optimal. |

No other errors or warnings have been tested.

# 4 Image Quality and Optical Density

## 4.1 Reference Film and LUT

| | | |
|---|---|---|
| Released Film Type | LI-LM | |

Refer to: Uroskop Access, General Hardcopy Camera Information

## 4.2 Real Size Scaling

n.a.

# 5 Abbreviations

| | |
|---|---|
| DCS | DICOM Conformance Statement |
| DICOM | Digital Imaging and Communication in Medicine |
| HW / SW | Hardware / Software |
| HCC | Hardcopy Camera |
| LUT | Look Up Table |
| OEM | Original Equipment Manufacturer |
| SCP | Service Class Provider |
| SCU | Service Class User |
| TCP/IP | Transfer Control Protocol / Internet Protocol |

# 6 Changes to Previous Version

All chapter were updated.

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